QC ABSTRACT

NAME OF WORK: Improvements to Roads and Drains Canara Bank Main Road and Cross Roads and Surrounding Areas in Ward No 09 (Vidyaranyapura)

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Block(400*150*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	PCC(M15)	Compressive Strength(7days and 28days)	7 set /150-200 cum	157.3	14	14

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-04-09-12** **Date: 04-02-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains Canara Bank Main Road and Cross Roads and Surrounding Areas in Ward No 09 (Vidyaranyapura)
Agency	:	M/S PROPEL INFRA, Prop Sheela K.S, No: D2-203, Thindlu Main, Road Kodigehalli. Vidyaranyapura Post, Bangalore-560097
Customer's Reference	:	BBMP/EE/BTP/WO/177/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-02-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	02-02-21
Environmental Conditions during test	:	Temperature 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.87	–
2	Finess by Air permeablity method (m^2/kg,Min)	298.7	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	165 minutes	Not less than 30 minutes
6	Final Setting time	265 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
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Samples will be disposed after 30 days from the date of issue of test certificate.

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-04-09-12** **Date: 02-03-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains Canara Bank Main Road and Cross Roads and Surrounding Areas in Ward No 09 (Vidyaranyapura)
Agency	:	M/S PROPEL INFRA, Prop Sheela K.S, No: D2-203, Thindlu Main, Road Kodigehalli, Vidyaranyapura Post, Bangalore-560097
Customer's Reference	:	BBMP/EE/BTP/WO/177/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-02-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification . IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	02-02-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2021-04-09-12 **Date: 04-02-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains Canara Bank Main Road and Cross Roads and Surrounding Areas in Ward No 09 (Vidyaranyapura)
Agency	:	M/S PROPEL INFRA, Prop Sheela K.S, No: D2-203, Thindlu Main, Road Kodigehalli, Vidyaranyapura Post, Bangalore-560097
Customer's Reference	:	BBMP/EE/BTP/WO/177/2020-21
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	01-02-21
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	01-02-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	245	245	1.6	98.4	90-100
3	20 mm	7875	8120	54.1	45.9	30-70
4	10 mm	3899	12019	80.1	19.9	10-35
5	4.75 mm	2588	14607	97.4	2.6	0-5
6	Pan	393	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-04-09-12** **Date: 04-02-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.9	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.38	–
5	Bulk Density(Compacted) (Kg/l)	1.45	–
6	Water Absorption(%)	0.22	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-04-09-12** **Date: 03-02-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains Canara Bank Main Road and Cross Roads and Surrounding Areas in Ward No 09 (Vidyaranyapura)
Agency	:	M/S PROPEL INFRA, Prop Sheela K.S, No: D2-203, Thindlu Main, Road Kodigehalli, Vidyaranyapura Post, Bangalore-560097
Customer Reference	:	BBMP/EE/BTP/WO/177/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-02-21
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	01-02-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	298	298	6.0	94.0	90-100
3	10 mm	2645	2943	58.9	41.1	25-55
4	4.75 mm	1811	4754	95.1	4.9	0-10
5	Pan	246	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-04-09-12** **Date: 03-02-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	8.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.42	–
5	Bulk Density(Compacted) (Kg/l)	1.48	–
6	Water Absorption(%)	0.35	–
7	Aggregate crushing Value(%)	24.8	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	25.1	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2021-04-09-12** **Date: 03-02-21**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains Canara Bank Main Road and Cross Roads and Surrounding Areas in Ward No 09 (Vidyaranyapura)

Agency : M/S PROPEL INFRA, Prop Sheela K.S, No: D2-203, Thindlu Main, Road Kodigehalli, Vidyaranyapura Post, Bangalore-560097

Customer's Reference : BBMP/EE/BTP/WO/177/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-02-21

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 01-02-21

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2021-04-09-12**

Date: 03-02-21

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	CP-2021-04-09-12
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains Canara Bank Main Road and Cross Roads and Surrounding Areas in Ward No 09 (Vidyaranyapura)
Agency	:	M/S PROPEL INFRA, Prop Sheela K.S, No: D2-203, Thindlu Main, Road Kodigehalli, Vidyaranyapura Post, Bangalore-560097
Customer's Reference	:	BBMP/EE/BTP/WO/177/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-02-21
Sample Type/Size	:	Solid concrete blocks size (400X150X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	05-02-21

Date: 08-02-21

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	405	148	198	11868	32.623	2748.8	2693.3	Not less than 1800Kg/m^3
2	404	150	200	12120	32.190	2655.9		
3	402	153	203	12486	33.400	2675.1		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Lab ID : CP-2021-04-09-12

Date: 08-02-21

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	399	152	203	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	399	151	202	
3	403	151	203	
4	403	150	202	
5	402	152	199	
6	401	152	199	
7	402	153	200	
8	400	150	199	
9	402	151	201	
10	401	151	200	
11	400	149	202	
12	399	152	199	
13	401	151	200	
14	400	153	201	
15	400	153	202	
16	403	153	203	
17	399	152	200	
18	400	152	200	
19	400	149	202	
20	400	151	201	
Average of 20	**401**	**151**	**201**	

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Lab ID : CP-2021-04-09-12

Date: 08-02-21

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	152	60988	271.6	4.5	4.5
2	399	151	60186	275.0	4.6	
3	403	151	60903	269.4	4.4	
4	403	150	60260	270.0	4.5	
5	402	152	61163	278.9	4.6	
6	401	152	60729	276.9	4.6	
7	402	153	61530	279.2	4.5	
8	400	150	59787	264.6	4.4	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2021-04-09-12** **Date: 10-02-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains Canara Bank Main Road and Cross Roads and Surrounding Areas in Ward No 09 (Vidyaranyapura)
Agency	:	M/S PROPEL INFRA, Prop Sheela K.S, No: D2-203, Thindlu Main, Road Kodigehalli, Vidyaranyapura Post, Bangalore-560097
Customer's Reference	:	BBMP/EE/BTP/WO/177/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-02-21
Sample Type /Size	:	Precast Cover Slab (100mm)
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	06/02/2021

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-04-09-12** **Date: 17/02/2021**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains Canara Bank Main Road and Cross Roads and Surrounding Areas in Ward No 09 (Vidyaranyapura)
Agency	:	M/S PROPEL INFRA, Prop Sheela K.S, No: D2-203, Thindlu Main, Road Kodigehalli, Vidyaranyapura Post, Bangalore-560097
Customer's Reference	:	BBMP/EE/BTP/WO/177/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-02-21
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	10/02/2021	17/02/2021	149.53 X 151.92 X 151.75	22717	**8.687**	288.9	12.7	12.5
2	PCC	M15	10/02/2021	17/02/2021	149.63 X 149.91 X 149.39	22430	**8.624**	272.9	12.2	
3	PCC	M15	10/02/2021	17/02/2021	151.33 X 151.76 X 149.53	22967	**8.810**	288.6	12.6	

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Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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R RUDRAPRASAD
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 10/03/2021

Lab ID	:	**CP-2021-04-09-12**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains Canara Bank Main Road and Cross Roads and Surrounding Areas in Ward No 09 (Vidyaranyapura)
Agency	:	M/S PROPEL INFRA, Prop Sheela K.S, No: D2-203, Thindlu Main, Road Kodigehalli, Vidyaranyapura Post, Bangalore-560097
Customer's Reference	:	BBMP/EE/BTP/WO/177/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-02-21
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	10/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	10/02/2021	10/03/2021	149.46 X 150.74 X 150.27	22530	8.762	386.7	17.2	17.5
2	PCC	M15	10/02/2021	10/03/2021	149.66 X 149.08 X 151.63	22311	8.195	393.0	17.6	
3	PCC	M15	10/02/2021	10/03/2021	150.29 X 149.34 X 149.17	22445	8.404	399.8	17.8	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 17/02/2021

Lab ID	:	**CP-2021-04-09-12**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains Canara Bank Main Road and Cross Roads and Surrounding Areas in Ward No 09 (Vidyaranyapura)
Agency	:	M/S PROPEL INFRA, Prop Sheela K.S, No: D2-203, Thindlu Main, Road Kodigehalli, Vidyaranyapura Post, Bangalore-560097
Customer's Reference	:	BBMP/EE/BTP/WO/177/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-02-21
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	10/02/2021	17/02/2021	149.79 X 150.78 X 150.68	22585	8.687	289.1	12.8	12.9
2	PCC	M15	10/02/2021	17/02/2021	150.20 X 149.24 X 150.42	22416	8.624	288.5	12.9	
3	PCC	M15	10/02/2021	17/02/2021	149.41 X 151.16 X 149.28	22584	8.810	292.5	13.0	

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Date: 10/03/2021

Lab ID	:	**CP-2021-04-09-12**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore
Project Name	:	Improvements to Roads and Drains Canara Bank Main Road and Cross Roads and Surrounding Areas in Ward No 09 (Vidyaranyapura)
Agency	:	M/S PROPEL INFRA, Prop Sheela K.S, No: D2-203, Thindlu Main, Road Kodigehalli, Vidyaranyapura Post, Bangalore-560097
Customer's Reference	:	BBMP/EE/BTP/WO/177/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-02-21
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	10/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	10/02/2021	10/03/2021	149.36 X 149.36 X 149.44	22308	8.762	381.8	17.1	17.2
2	PCC	M15	10/02/2021	10/03/2021	149.96 X 151.04 X 149.64	22649	8.195	396.4	17.5	
3	PCC	M15	10/02/2021	10/03/2021	150.21 X 149.29 X 150.88	22424	8.494	382.6	17.1	

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Date: 17/02/2021

Lab ID	:	**CP-2021-04-09-12**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains Canara Bank Main Road and Cross Roads and Surrounding Areas in Ward No 09 (Vidyaranyapura)
Agency	:	M/S PROPEL INFRA, Prop Sheela K.S, No: D2-203, Thindlu Main, Road Kodigehalli, Vidyaranyapura Post, Bangalore-560097
Customer's Reference	:	BBMP/EE/BTP/WO/177/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-02-21
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	10/02/2021	17/02/2021	149.37 X 149.11 X 149.14	22273	**8.687**	288.4	12.9	12.6
2	PCC	M15	10/02/2021	17/02/2021	149.50 X 149.52 X 151.74	22354	**8.624**	280.2	12.5	
3	PCC	M15	10/02/2021	17/02/2021	151.17 X 149.94 X 149.82	22668	**8.810**	278.7	12.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-04-09-12** **Date: 10/03/2021**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains Canara Bank Main Road and Cross Roads and Surrounding Areas in Ward No 09 (Vidyaranyapura)

Agency : M/S PROPEL INFRA, Prop Sheela K.S, No: D2-203, Thindlu Main, Road Kodigehalli, Vidyaranyapura Post, Bangalore-560097

Customer's Reference : BBMP/EE/BTP/WO/177/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-02-21

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	10/02/2021	10/03/2021	150.80 X 150.87 X 150.88	22751	**8.762**	393.3	17.3	17.7
2	PCC	M15	10/02/2021	10/03/2021	149.59 X 149.30 X 151.56	22334	**8.195**	397.8	17.8	
3	PCC	M15	10/02/2021	10/03/2021	151.95 X 151.22 X 149.90	22979	**8.404**	411.0	17.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-04-09-12** **Date: 19/02/2021**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains Canara Bank Main Road and Cross Roads and Surrounding Areas in Ward No 09 (Vidyaranyapura)

Agency : M/S PROPEL INFRA, Prop Sheela K.S, No: D2-203, Thindlu Main, Road Kodigehalli, Vidyaranyapura Post, Bangalore-560097

Customer's Reference : BBMP/EE/BTP/WO/177/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-02-21

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	12/02/2021	19/02/2021	151.76 X 149.66 X 151.98	22711	**8.687**	281.5	12.4	12.6
2	PCC	M15	12/02/2021	19/02/2021	150.46 X 151.49 X 150.61	22794	**8.624**	288.9	12.7	
3	PCC	M15	12/02/2021	19/02/2021	151.33 X 149.09 X 149.82	22562	**8.810**	284.9	12.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-04-09-12** **Date: 12/03/2021**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains Canara Bank Main Road and Cross Roads and Surrounding Areas in Ward No 09 (Vidyaranyapura)
Agency	:	M/S PROPEL INFRA, Prop Sheela K.S, No: D2-203, Thindlu Main, Road Kodigehalli, Vidyaranyapura Post, Bangalore-560097
Customer's Reference	:	BBMP/EE/BTP/WO/177/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-02-21
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	12/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	12/02/2021	12/03/2021	150.49 X 150.82 X 150.24	22697	**8.762**	393.3	17.3	17.3
2	PCC	M15	12/02/2021	12/03/2021	149.15 X 151.88 X 149.02	22653	**8.195**	395.4	17.5	
3	PCC	M15	12/02/2021	12/03/2021	150.72 X 150.64 X 149.85	22704	**8.404**	391.3	17.2	

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BBMP, Bangalore-97

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-04-09-12** **Date: 19/02/2021**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains Canara Bank Main Road and Cross Roads and Surrounding Areas in Ward No 09 (Vidyaranyapura)

Agency : M/S PROPEL INFRA, Prop Sheela K.S, No: D2-203, Thindlu Main, Road Kodigehalli, Vidyaranyapura Post, Bangalore-560097

Customer's Reference : BBMP/EE/BTP/WO/177/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-02-21

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	12/02/2021	19/02/2021	149.31 X 151.14 X 149.30	22567	**8.687**	280.7	12.4	12.6
2	PCC	M15	12/02/2021	19/02/2021	149.02 X 151.30 X 150.33	22545	**8.624**	287.3	12.7	
3	PCC	M15	12/02/2021	19/02/2021	151.63 X 149.62 X 150.30	22687	**8.810**	285.9	12.6	

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BBMP, Bangalore - 97

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TEST REPORT OF CEMENT CONCRETE CUBES

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Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

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Customer's Reference : BBMP/EE/BTP/WO/177/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-02-21

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	12/02/2021	12/03/2021	151.63 X 151.07 X 149.95	22906	**8.762**	406.2	17.7	17.5
2	PCC	M15	12/02/2021	12/03/2021	151.78 X 151.63 X 150.72	23014	**8.195**	403.5	17.5	
3	PCC	M15	12/02/2021	12/03/2021	150.06 X 151.20 X 149.45	22689	**8.404**	390.4	17.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-04-09-12** **Date: 19/02/2021**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains Canara Bank Main Road and Cross Roads and Surrounding Areas in Ward No 09 (Vidyaranyapura)

Agency : M/S PROPEL INFRA, Prop Sheela K.S, No: D2-203, Thindlu Main, Road Kodigehalli, Vidyaranyapura Post, Bangalore-560097

Customer's Reference : BBMP/EE/BTP/WO/177/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-02-21

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	12/02/2021	19/02/2021	151.64 X 149.51 X 150.96	22672	**8.687**	276.9	12.2	12.4
2	PCC	M15	12/02/2021	19/02/2021	150.72 X 150.29 X 151.08	22651	**8.624**	286.6	12.7	
3	PCC	M15	12/02/2021	19/02/2021	151.70 X 149.48 X 149.23	22676	**8.810**	277.4	12.2	

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Lab ID : **CP-2021-04-09-12** **Date: 12/03/2021**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains Canara Bank Main Road and Cross Roads and Surrounding Areas in Ward No 09 (Vidyaranyapura)

Agency : M/S PROPEL INFRA, Prop Sheela K.S, No: D2-203, Thindlu Main, Road Kodigehalli, Vidyaranyapura Post, Bangalore-560097

Customer's Reference : BBMP/EE/BTP/WO/177/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-02-21

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	12/02/2021	12/03/2021	149.86 X 149.80 X 149.79	22449	**8.762**	398.3	17.7	17.3
2	PCC	M15	12/02/2021	12/03/2021	150.57 X 149.49 X 149.25	22509	**8.195**	388.1	17.2	
3	PCC	M15	12/02/2021	12/03/2021	151.08 X 151.89 X 150.75	22947	**8.404**	390.6	17.0	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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Date.....
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R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-04-09-12** **Date: 19/02/2021**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains Canara Bank Main Road and Cross Roads and Surrounding Areas in Ward No 09 (Vidyaranyapura)
Agency	:	M/S PROPEL INFRA, Prop Sheela K.S, No: D2-203, Thindlu Main, Road Kodigehalli, Vidyaranyapura Post, Bangalore-560097
Customer's Reference	:	BBMP/EE/BTP/WO/177/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-02-21
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	19/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	12/02/2021	19/02/2021	150.10 X 150.39 X 149.05	22573	**8.687**	279.0	12.4	12.4
2	PCC	M15	12/02/2021	19/02/2021	149.26 X 149.60 X 150.07	22330	**8.624**	275.6	12.3	
3	PCC	M15	12/02/2021	19/02/2021	149.61 X 149.02 X 151.47	22295	**8.810**	280.5	12.6	

* The results obtained are satisfactory as per standard requirements.

Note:

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Assistant Executive Engineer Vidyaranyapura Sub Division BBMP, Bangalore - 97

CIVIL Pro Sig..... Date..... BANGALORE

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R.RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-04-09-12** **Date: 12/03/2021**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains Canara Bank Main Road and Cross Roads and Surrounding Areas in Ward No 09 (Vidyaranyapura)

Agency : M/S PROPEL INFRA, Prop Sheela K.S, No: D2-203, Thindlu Main, Road Kodigehalli, Vidyaranyapura Post, Bangalore-560097

Customer's Reference : BBMP/EE/BTP/WO/177/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-02-21

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	12/02/2021	12/03/2021	150.96 X 151.55 X 149.82	22879	**8.762**	406.3	17.8	17.4
2	PCC	M15	12/02/2021	12/03/2021	150.14 X 149.05 X 152.00	22378	**8.195**	381.0	17.0	
3	PCC	M15	12/02/2021	12/03/2021	149.29 X 149.45 X 151.65	22311	**8.404**	389.7	17.5	

* The results obtained are satisfactory as per standard requirements.

Note:

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Assistant Executive Engineer Vidyaranyapura Sub Division BBMP, Bangalore - 97

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****